

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034449.D
 Acq On : 3 Dec 2019 5:51
 Operator : SY/AP
 Sample : K6097-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1ADL

Quant Time: Dec 03 07:42:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	749294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1482608	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1437743	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1223567	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

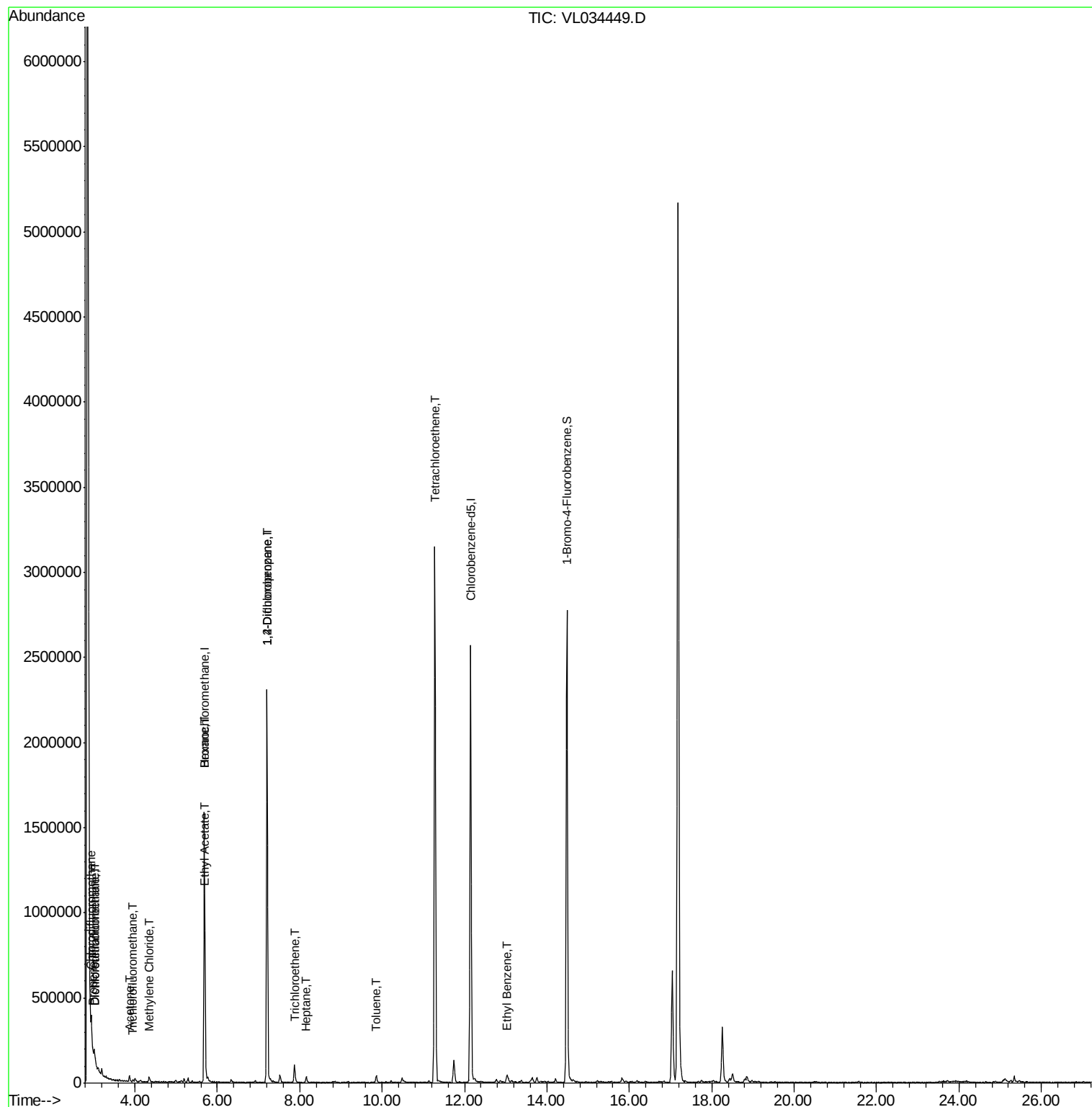
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	20106	0.148	ppbv	89
3) Chlorodifluoromethane	2.94	51	62878	0.673	ppbv #	56
8) Dichlorotetrafluoroethane	3.03	85	17587	0.144	ppbv #	18
9) Propene	2.99	41	1275	0.031	ppbv #	53
10) Heptane	8.16	43	5867	0.055	ppbv #	27
11) Trichlorofluoromethane	3.95	101	5699	0.042	ppbv #	56
15) Acetone	3.86	43	10207	0.095	ppbv #	50
20) Methylene Chloride	4.34	84	2324	0.061	ppbv #	78
25) Ethyl Acetate	5.71	43	13159	0.069	ppbv #	76
26) Hexane	5.69	57	4443	0.054	ppbv #	1
38) Trichloroethene	7.88	130	14326	0.236	ppbv #	90
39) 1,2-Dichloropropane	7.20	63	436108	7.638	ppbv #	23
52) Tetrachloroethene	11.28	164	722900	11.273	ppbv	96
53) Toluene	9.86	91	25922	0.154	ppbv	90
58) Ethyl Benzene	13.01	91	7743	0.035	ppbv	93

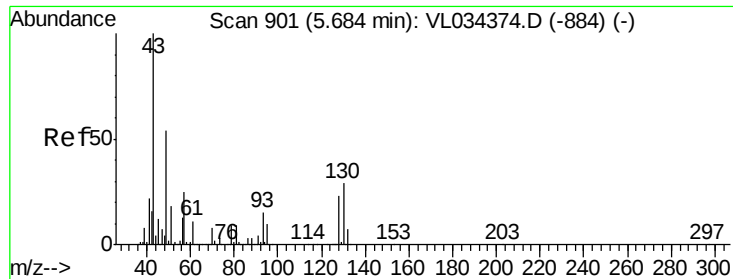
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 03 07:42:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

Instrument :

MSVOA_L

ClientSampleId :

SV-1ADL

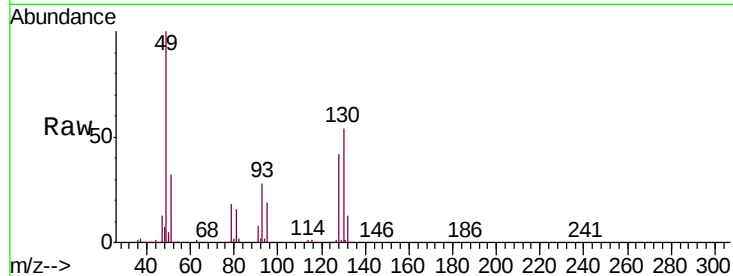
Tgt Ion: 49 Resp: 749294

Ion Ratio Lower Upper

49 100

128 43.7 21.8 65.3

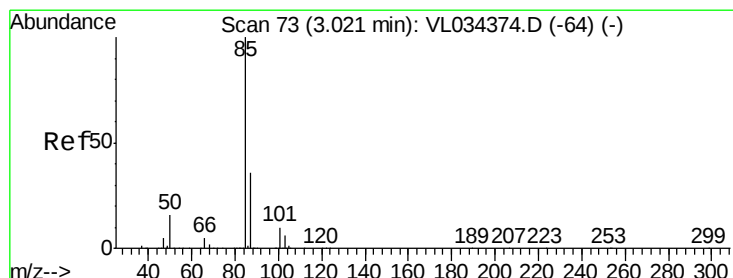
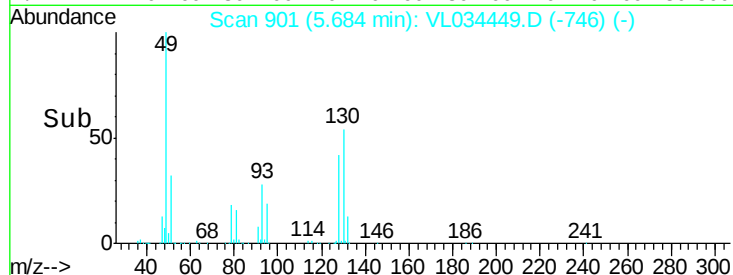
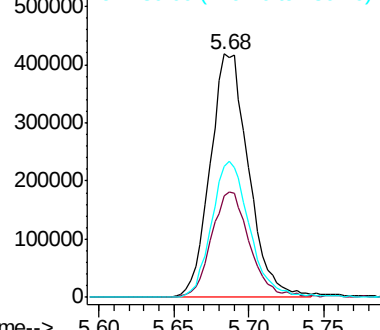
130 55.3 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.148 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL034449.D

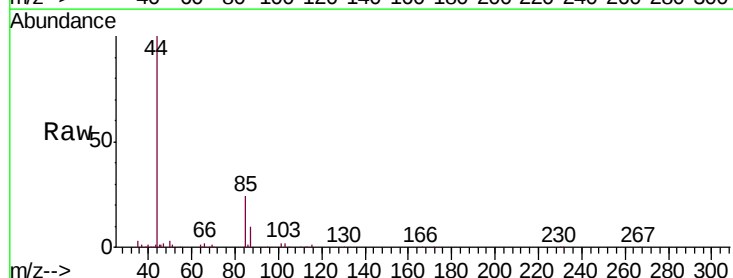
Acq: 3 Dec 2019 5:51

Tgt Ion: 85 Resp: 20106

Ion Ratio Lower Upper

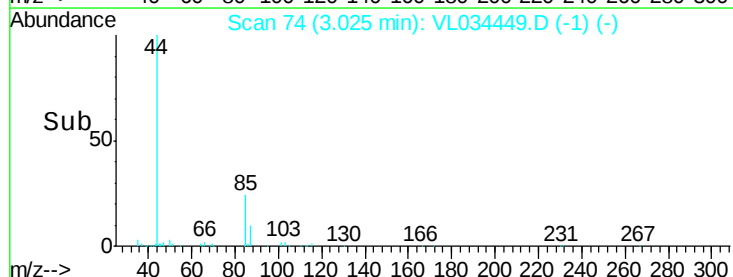
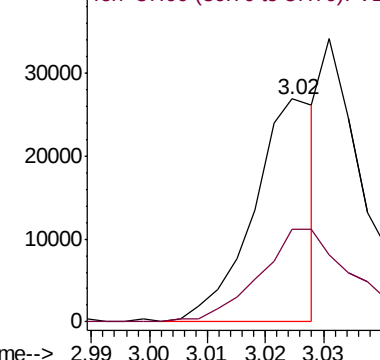
85 100

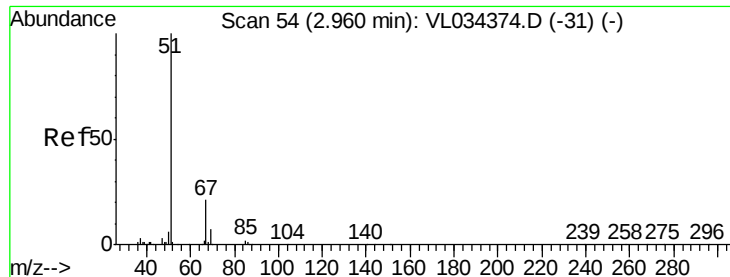
87 41.8 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

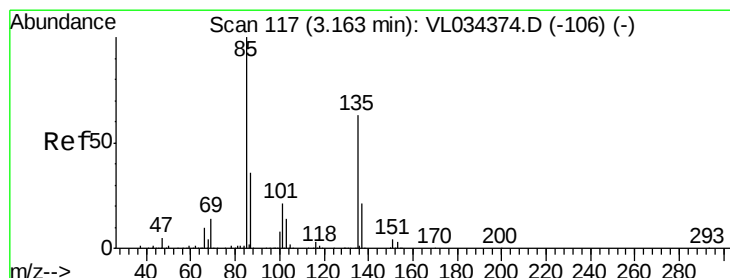
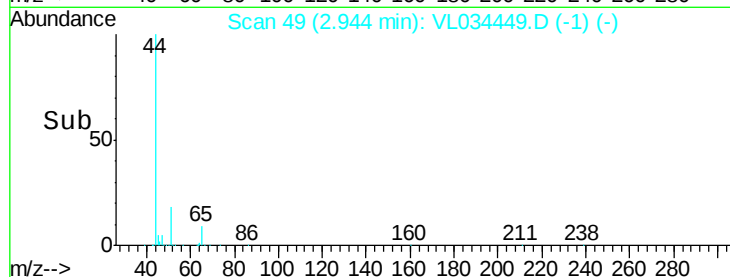
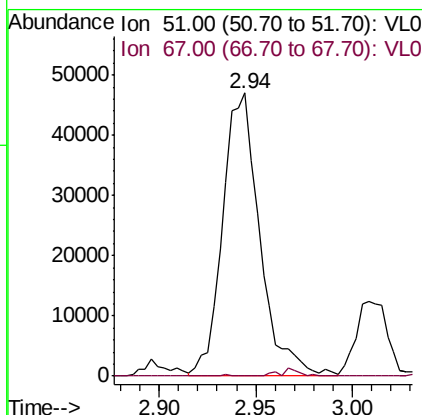
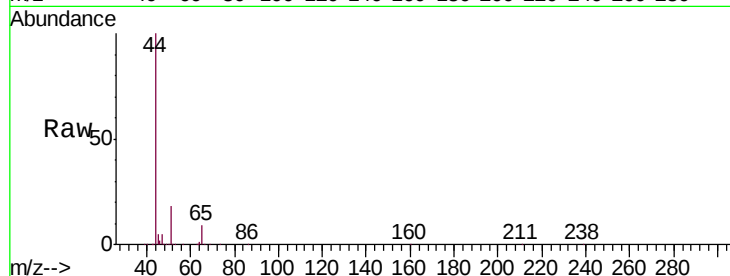




#3
 Chlorodifluoromethane
 Concen: 0.673 ppbv
 RT: 2.94 min Scan# 49
 Delta R.T. -0.02 min
 Lab File: VL034449.D
 Acq: 3 Dec 2019 5:51

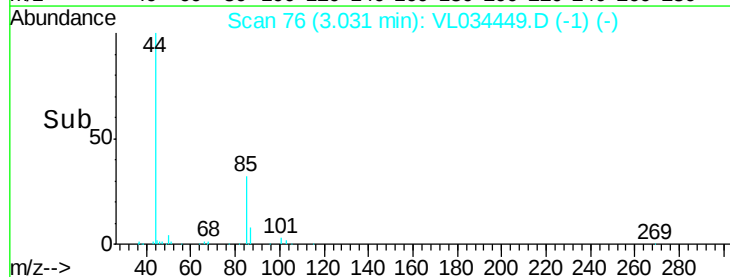
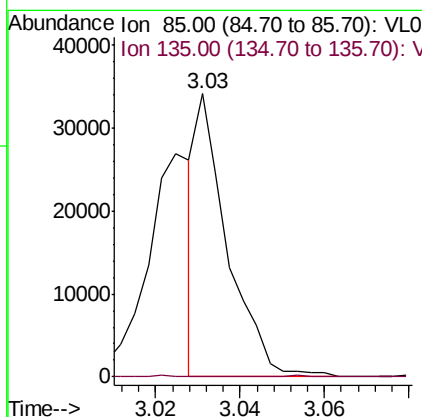
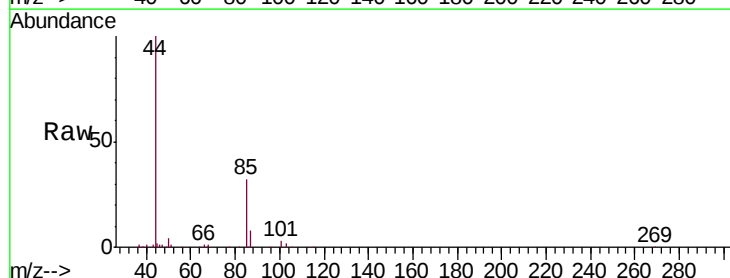
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1ADL

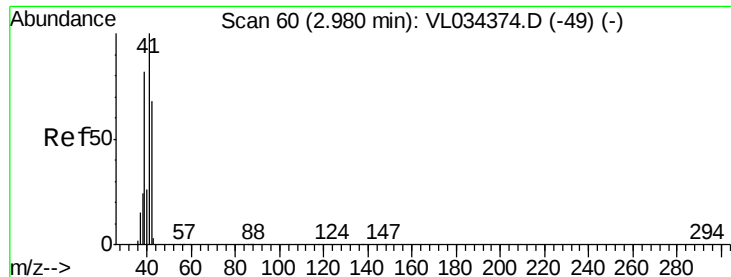
Tgt Ion: 51 Resp: 62878
 Ion Ratio Lower Upper
 51 100
 67 0.1 16.2 24.2#



#8
 Dichlorotetrafluoroethane
 Concen: 0.144 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. -0.13 min
 Lab File: VL034449.D
 Acq: 3 Dec 2019 5:51

Tgt Ion: 85 Resp: 17587
 Ion Ratio Lower Upper
 85 100
 135 0.0 51.1 76.7#





#9

Propene

Concen: 0.031 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

Instrument :

MSVOA_L

ClientSampleId :

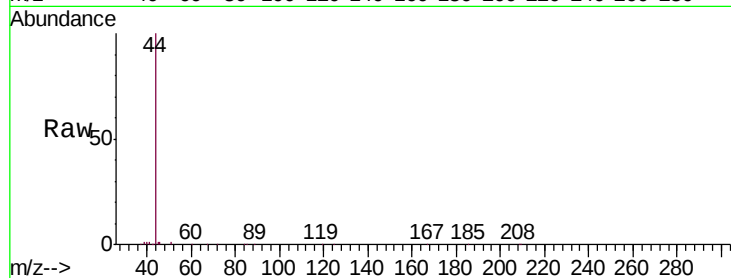
SV-1ADL

Tgt Ion: 41 Resp: 1275

Ion Ratio Lower Upper

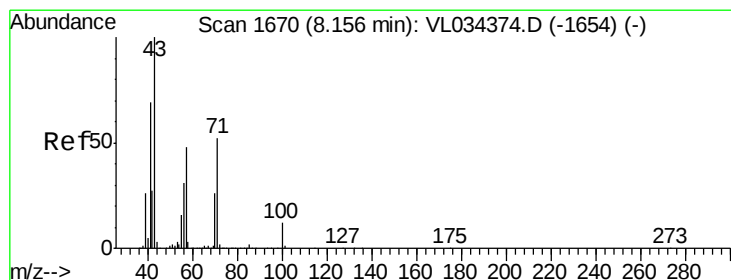
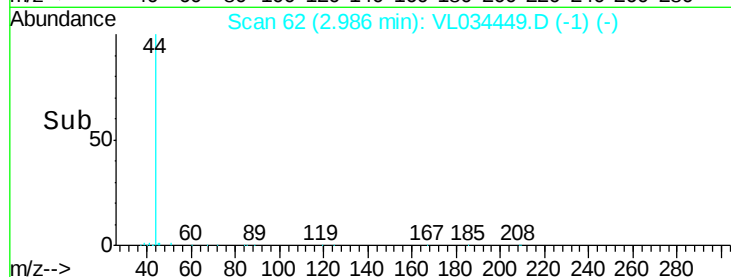
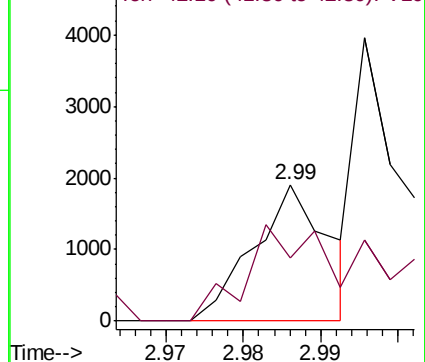
41 100

42 29.9 54.6 82.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.055 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VL034449.D

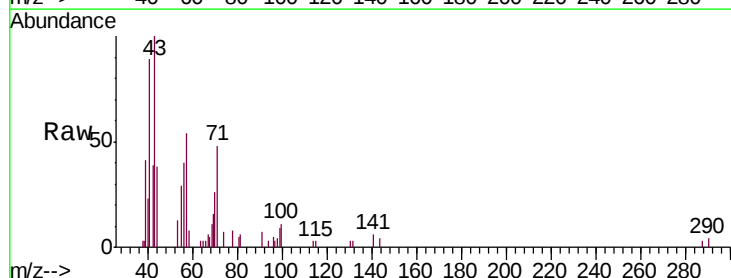
Acq: 3 Dec 2019 5:51

Tgt Ion: 43 Resp: 5867

Ion Ratio Lower Upper

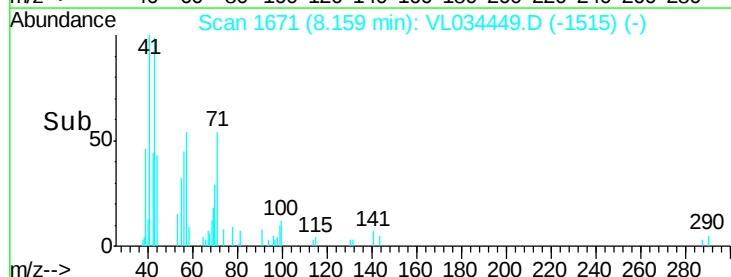
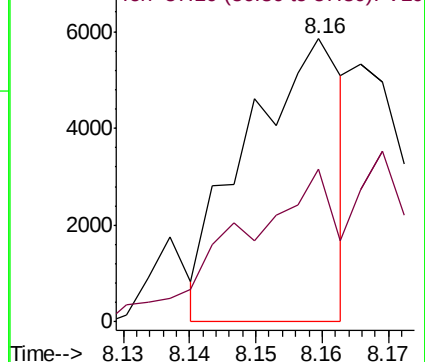
43 100

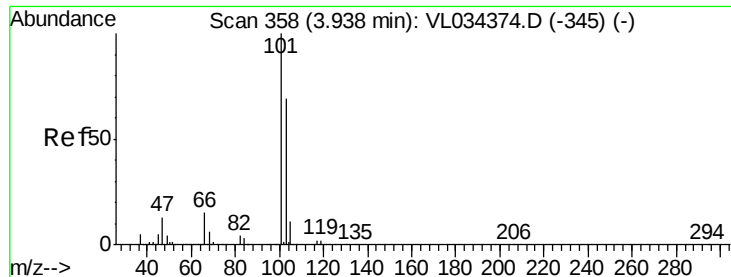
57 0.0 40.2 60.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

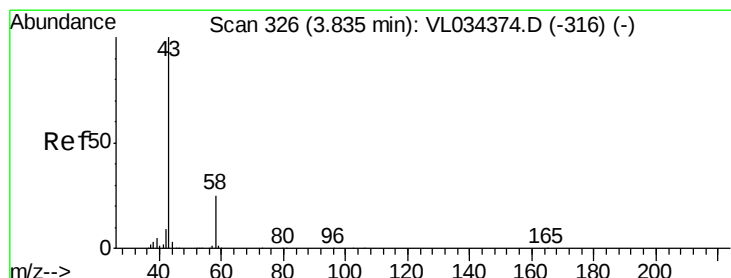
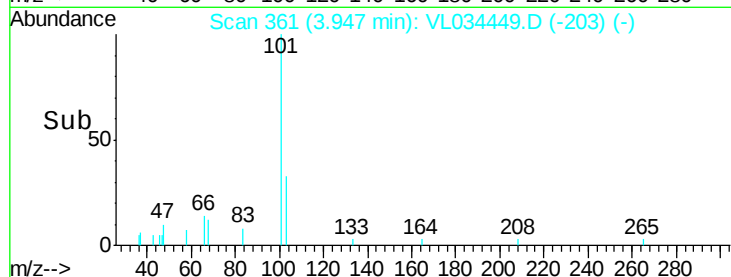
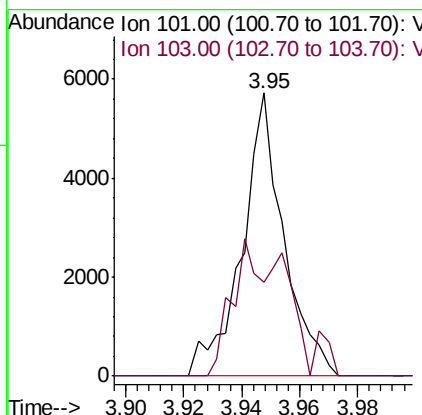
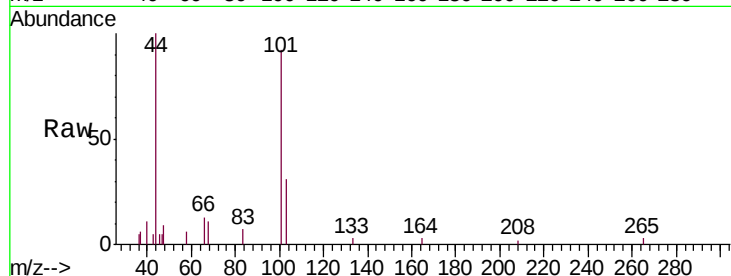




#11
 Trichlorofluoromethane
 Concen: 0.042 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL034449.D
 Acq: 3 Dec 2019 5:51

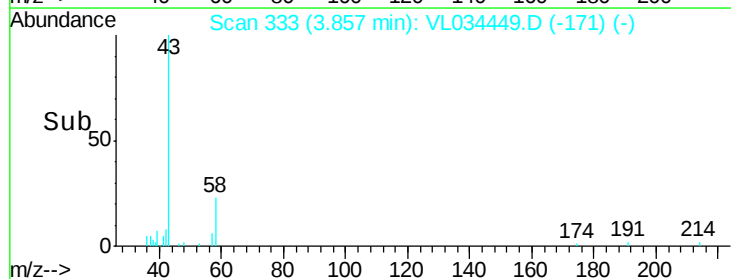
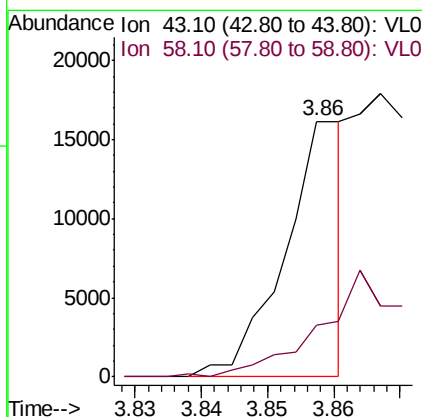
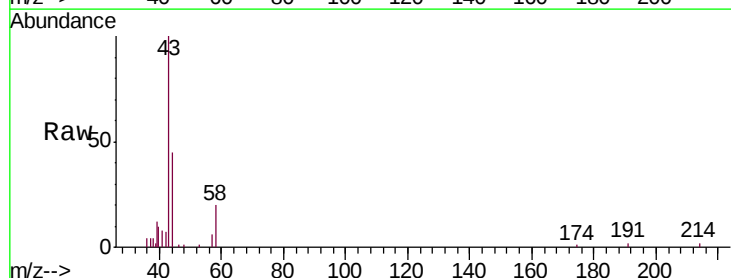
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1ADL

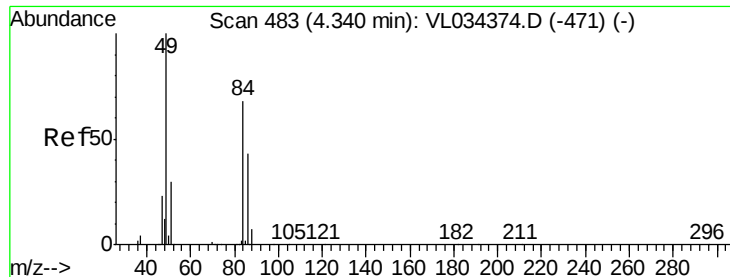
Tgt Ion: 101 Resp: 5699
 Ion Ratio Lower Upper
 101 100
 103 33.4 55.4 83.0#



#15
 Acetone
 Concen: 0.095 ppbv
 RT: 3.86 min Scan# 333
 Delta R.T. 0.02 min
 Lab File: VL034449.D
 Acq: 3 Dec 2019 5:51

Tgt Ion: 43 Resp: 10207
 Ion Ratio Lower Upper
 43 100
 58 0.0 20.2 30.4#

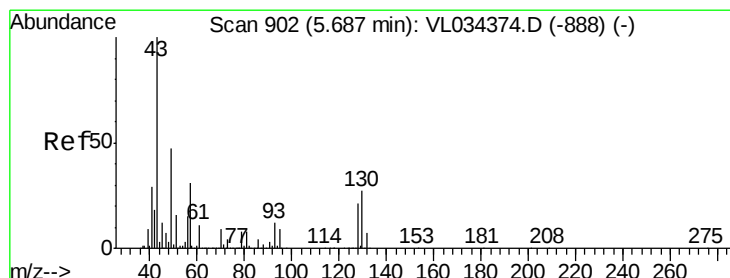
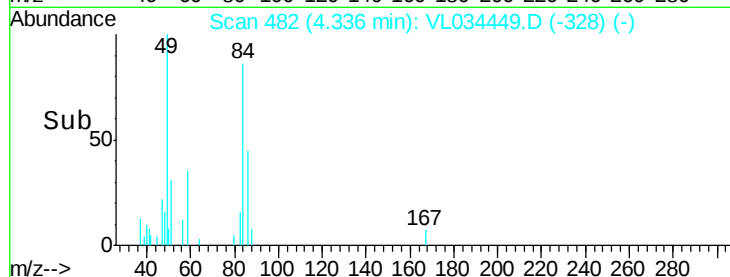
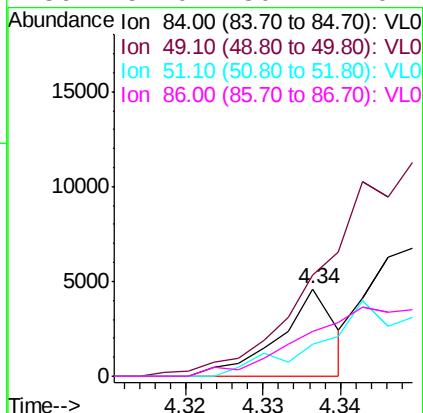
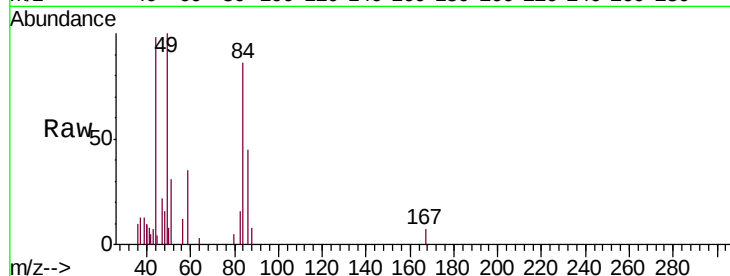




#20
Methylene Chloride
Concen: 0.061 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

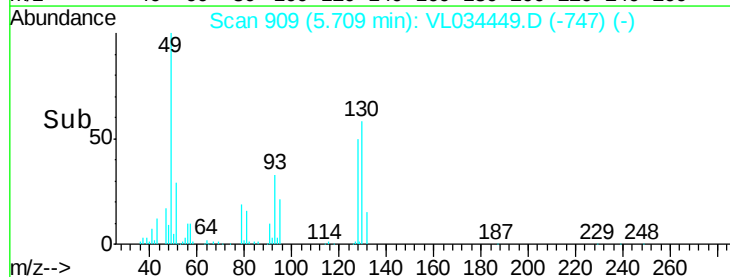
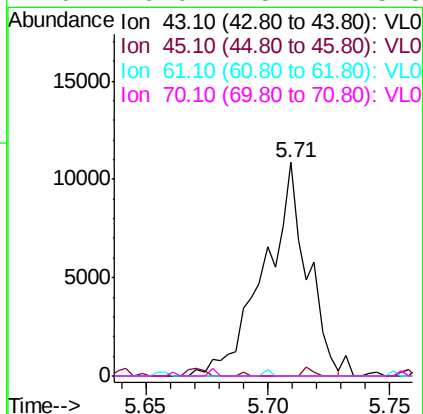
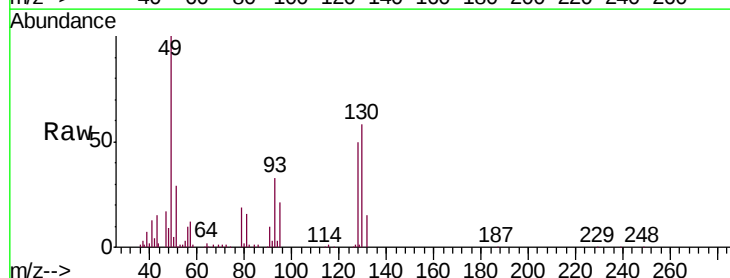
Instrument :
MSVOA_L
ClientSampleId :
SV-1ADL

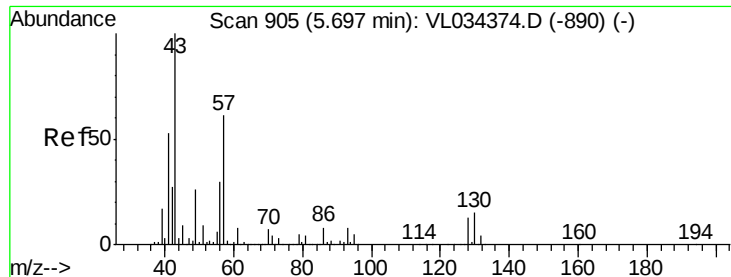
Tgt Ion: 84 Resp: 2324
Ion Ratio Lower Upper
84 100
49 110.2 116.8 175.2#
51 36.2 35.6 53.4
86 52.0 50.7 76.1



#25
Ethyl Acetate
Concen: 0.069 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

Tgt Ion: 43 Resp: 13159
Ion Ratio Lower Upper
43 100
45 0.9 8.2 12.4#
61 0.0 7.5 11.3#
70 0.0 5.7 8.5#





#26

Hexane

Concen: 0.054 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.00 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

Instrument :

MSVOA_L

ClientSampleId :

SV-1ADL

Tgt Ion: 57 Resp: 4443

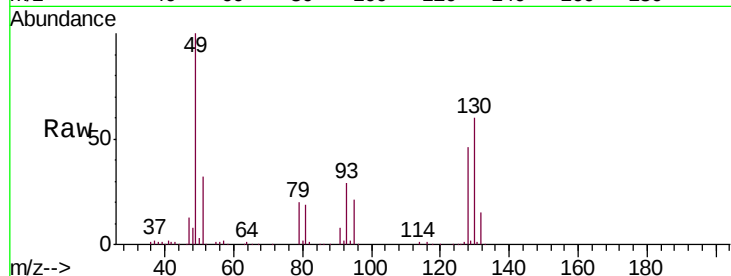
Ion Ratio Lower Upper

57 100

41 406.5 75.0 112.4#

43 0.0 186.6 279.8#

56 0.0 41.5 62.3#

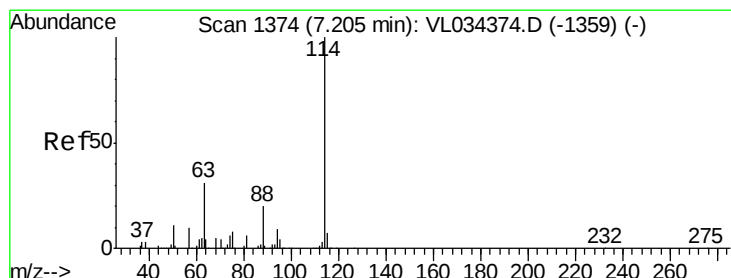
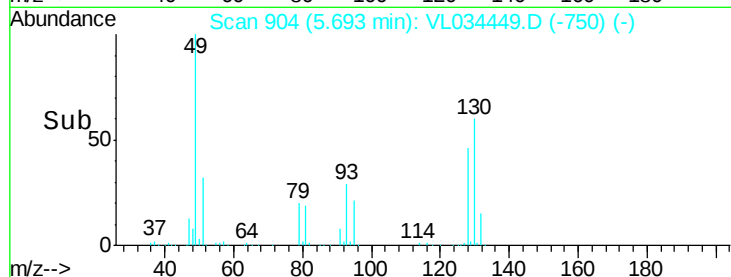
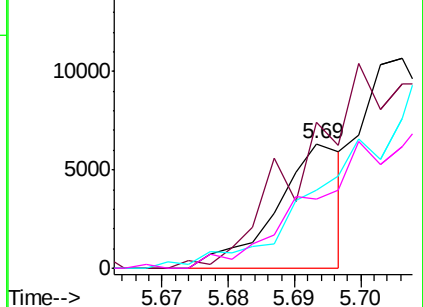


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

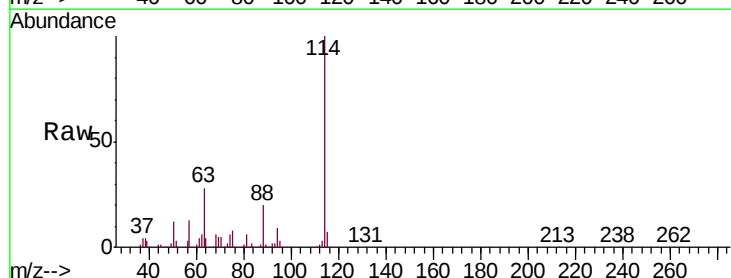
Tgt Ion: 114 Resp: 1482608

Ion Ratio Lower Upper

114 100

63 29.6 24.2 36.4

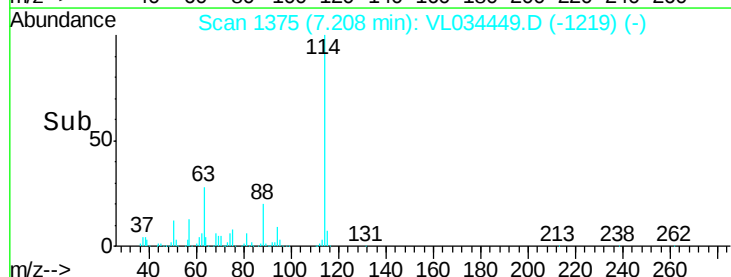
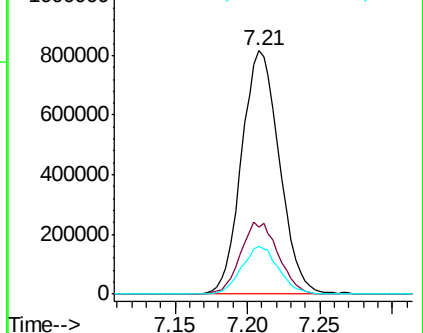
88 19.1 15.9 23.9

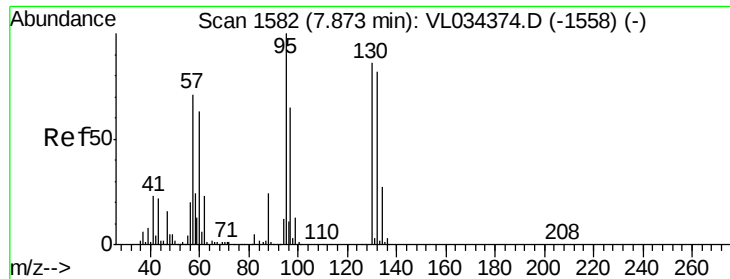


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#38

Trichloroethene

Concen: 0.236 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

Instrument :

MSVOA_L

ClientSampleId :

SV-1ADL

Tgt Ion:130 Resp: 14326

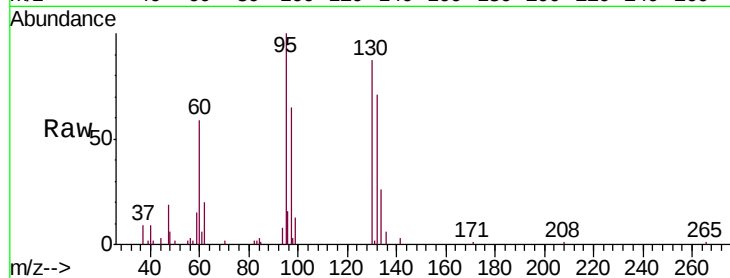
Ion Ratio Lower Upper

130 100

95 110.7 93.4 140.0

132 75.7 76.4 114.6#

97 71.8 61.1 91.7

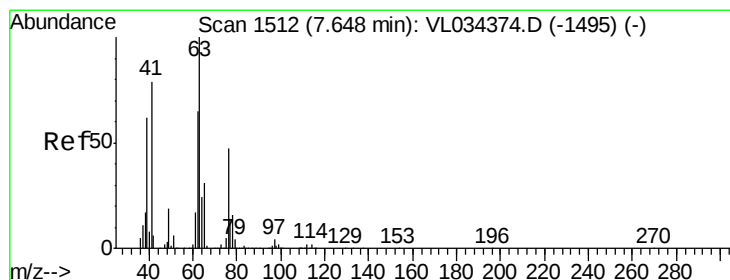
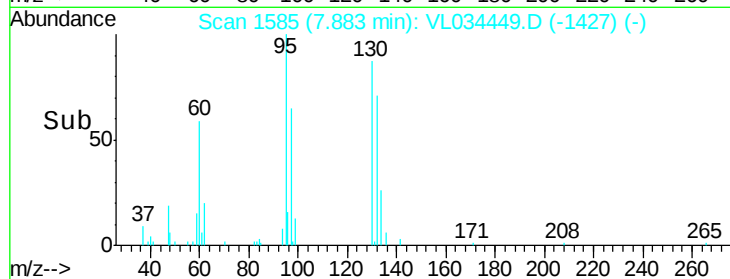
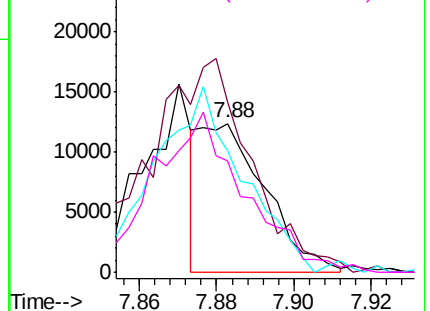


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.638 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.44 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

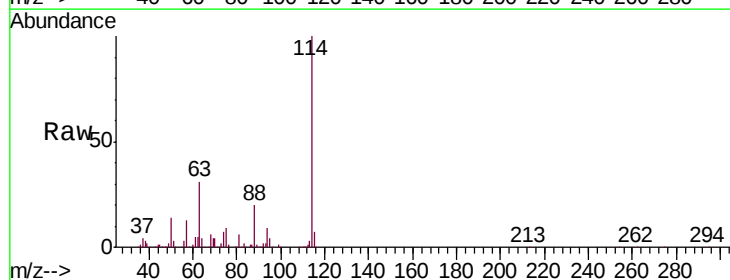
Tgt Ion: 63 Resp: 436108

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

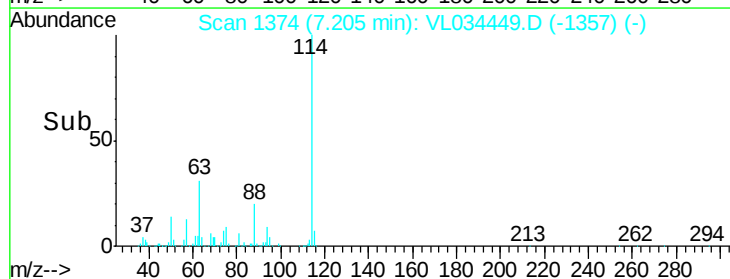
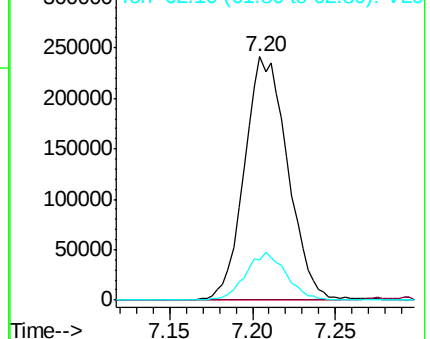
62 16.3 52.3 78.5#

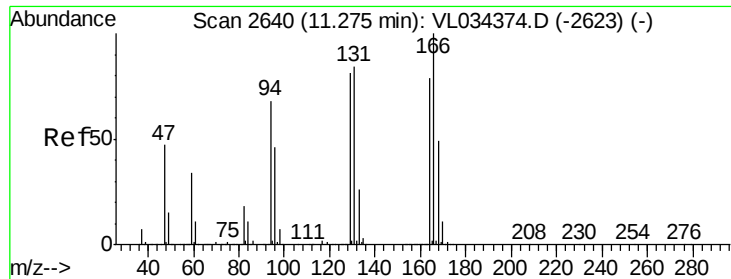


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

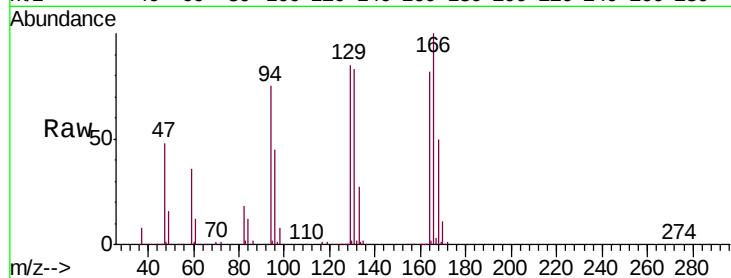




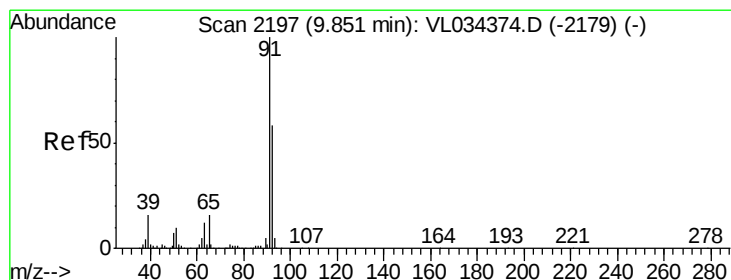
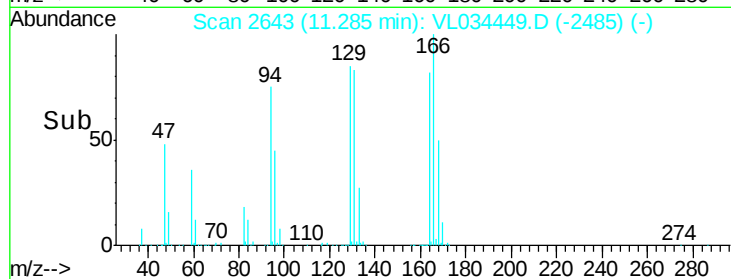
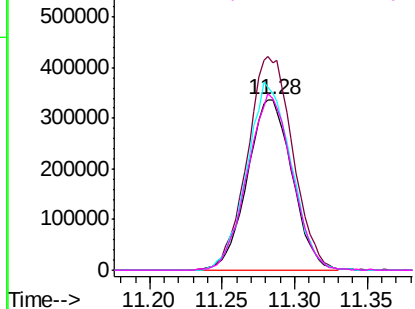
#52
Tetrachloroethene
Concen: 11.273 ppbv
RT: 11.28 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

Instrument :
MSVOA_L
ClientSampleId :
SV-1ADL

Tgt Ion:164 Resp: 722900
Ion Ratio Lower Upper
164 100
166 121.8 101.7 152.5
129 103.1 82.6 123.8
131 100.8 85.2 127.8

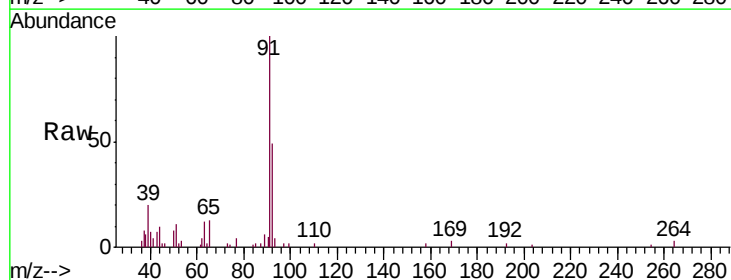


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

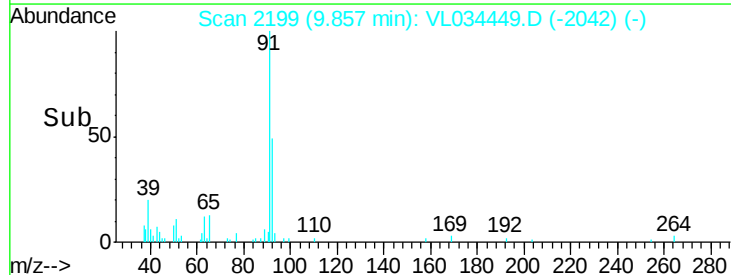
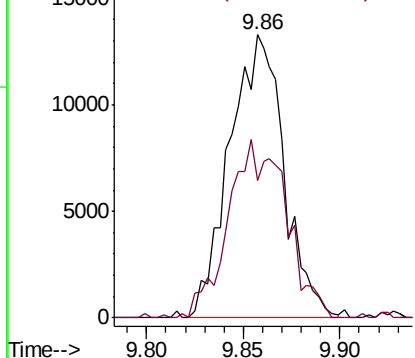


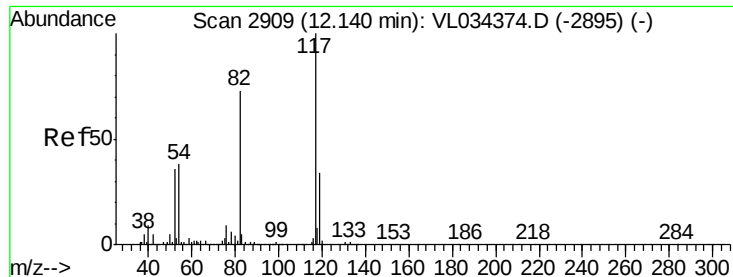
#53
Toluene
Concen: 0.154 ppbv
RT: 9.86 min Scan# 2199
Delta R.T. 0.01 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

Tgt Ion: 91 Resp: 25922
Ion Ratio Lower Upper
91 100
92 67.4 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

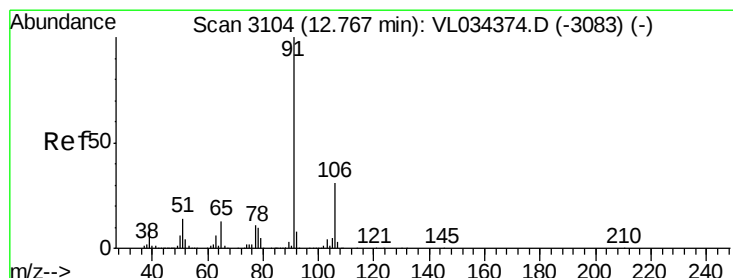
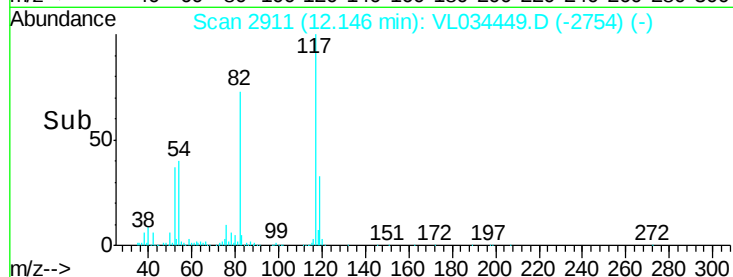
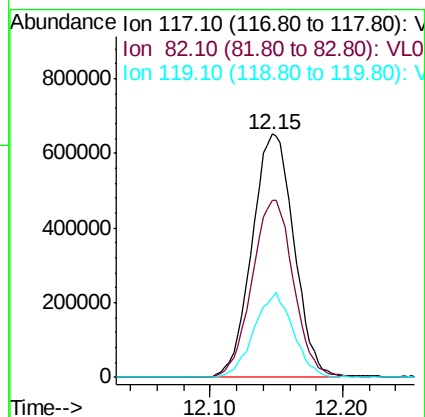
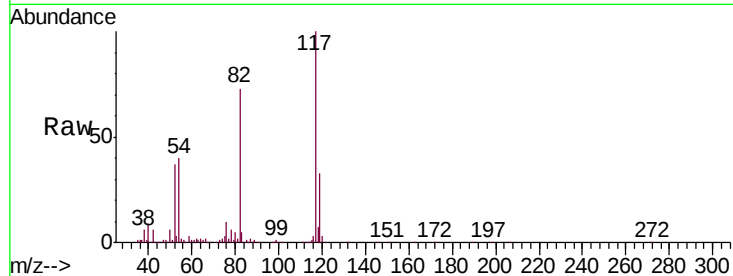




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. 0.01 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

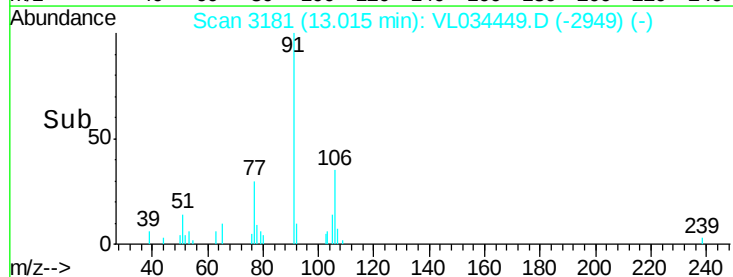
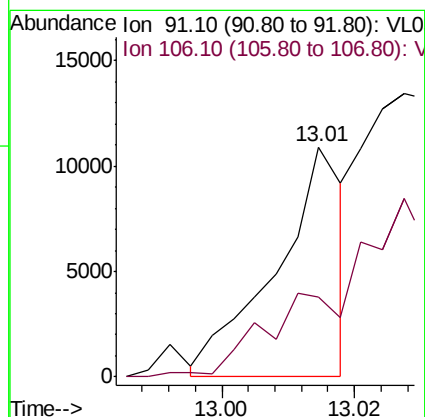
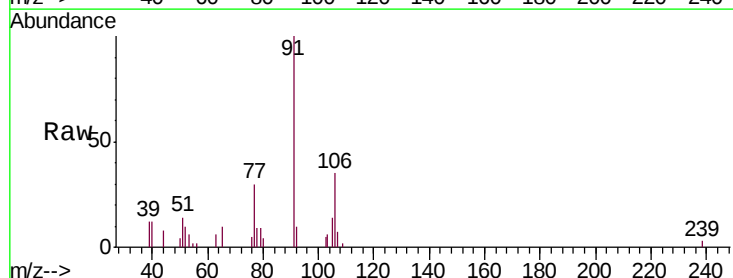
Instrument :
MSVOA_L
ClientSampleId :
SV-1ADL

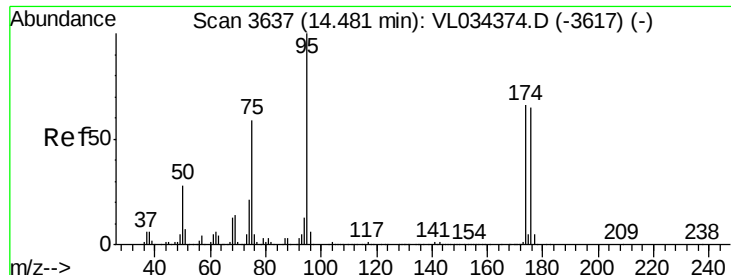
Tgt Ion: 117 Resp: 1437743
Ion Ratio Lower Upper
117 100
82 72.6 57.5 86.3
119 32.8 25.4 38.2



#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. 0.25 min
Lab File: VL034449.D
Acq: 3 Dec 2019 5:51

Tgt Ion: 91 Resp: 7743
Ion Ratio Lower Upper
91 100
106 34.7 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.116 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. 0.01 min

Lab File: VL034449.D

Acq: 3 Dec 2019 5:51

Instrument :

MSVOA_L

ClientSampleId :

SV-1ADL

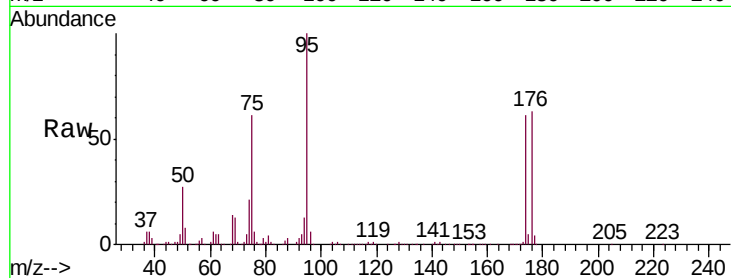
Tgt Ion: 95 Resp: 1223567

Ion Ratio Lower Upper

95 100

174 65.7 52.2 78.2

175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

